EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9	((energy laser electron) with (fiber fibre)) and ((multiple plural$4) adj4 (laser beam transfer device) with (around surround$4 encircl$4 circular$4 circl$4) near3 (work workpiece pipe tube conduit cable wire cylind$7)) and (((laser electron energy) adj beam) with (weld$4 join$4 cut$4 inspect$4 bond$4 engrav$4 etch$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 07:46
L2	6	L1 and switch$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 07:46
L3	30	("20020098298" | "20030173344" | "20040188394" | "20050028897" | "3622743" | "4000392" | "4564736" | "4644127" | "4757179" | "4804815" | "4827099" | "5038016" | "5106010" | "5374319" | "5478983" | "5622638" | "5795412" | "5795541" | "5814784" | "5900170" | "5914059" | "6054672" | "6054687" | "6332272" | "6333484" | "6444947" | "6495793" | "6640604" | "6744007" | "6914213").PN. OR ("7094988"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 07:48
L4	4	L3 and switch$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 07:48
L5	6	2	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 07:48
L6	4	4	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:17
L7	7	(plural$4 multiple) with laser with encircl$4 with (tube tubing pipe piping work workpiece)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:21
L8	81	(plural$4 multiple) with laser with surround$4 with (tube tubing pipe piping work workpiece)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:26
L9	13	(plural$4 multiple) with laser with surround$4 with (tube tubing pipe piping work workpiece) with (join$4 weld$4 cut$4 bond$4 imping$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:23

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L10	19	(plural$4 multiple) with laser with surround$4 with (tube tubing pipe piping work workpiece) with (join$4 weld$4 cut$4 bond$4 imping$4 focus$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:26
L11	0	(plural$4 multiple) with laser with encircl$4 with (tube tubing pipe piping work workpiece) with (join$4 weld$4 cut$4 bond$4 imping$4 focus$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:30
L12	47	8 and laser with (weld$4 cut$4 bond$4 join$4 imping$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:27
L13	55	(plural$4 multiple) with laser with focus$4 with (tube tubing pipe piping work workpiece) with (join$4 weld$4 cut$4 bond$4 imping$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:31
L14	21	(plural$4 multiple) near3 laser with focus$4 with (tube tubing pipe piping work workpiece) with (join$4 weld$4 cut$4 bond$4 imping$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 08:31
S1	7323	(energy laser electron) with (fiber fibre) near5 lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:23
S2	191	(energy laser electron) with (fiber fibre) with plural$4 with switch$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:39
S3	32	S1 and S2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:19
S4	30	(energy laser electron) with (fiber fibre) with plural$4 near5 transfer$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:31
S5	90	(energy laser electron) with (fiber fibre) with plural$4 near5 switch$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:30

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S6	0	S1 and S4 and S5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:30
S7	0	S4 and S5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:30
S8	120	(energy laser electron) with (fiber fibre) with (plural$4 near5 (transfer$4 switch$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:31
S9	17	S1 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:32
S10	5	S9 and ((weld$4 join$5 cut$4 inspect$5) with (energy laser electron))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:38
S11	31	(plural$4 with location$4 with workpiece) with ((laser electron energy) with beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:39
S12	10152	(energy laser electron) with (fiber fibre) with (switch$4 plural$4 transfer$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:41
S13	4	S11 and S12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:45
S14	2	S11 not S13 and vacuum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:46
S15	155	(laser with (weld$4 join$4 cut$4 inspect$4)) and ((plural$4 multiple) with fiber) and ((opposi$5 adj side) with laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:50

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S16	124	(laser with (weld$4 join$4 cut$4 inspect$4)) and ((plural$4 multiple) with fiber) and ((opposi$5 adj side) with laser) and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:00
S17	6	(laser with (weld$4 join$4 cut$4 inspect$4)) and ((plural$4 multiple) with fiber) and ((opposi$5 adj side) with laser with (weld$4 join$4 cut$4 inspect$4)) and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:05
S18	1	S17 and switch$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:06
S19	35	S16 and switch$4 with (laser beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:06
S20	33	S16 and switch$4 near5 (laser beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:07
S21	0	S16 and switch$4 near5 (laser beam) with opposi$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:07
S22	1	S16 and switch$4 near5 (laser beam) with alternat$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:07
S23	0	S16 and switch$4 near5 (laser beam) with different	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:07
S24	2	S16 and switch$4 with (plural$4 multiple) with (laser beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:09
S25	0	S15 and switch$4 with (plural$4 multiple) with (laser beam) not S24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:10

EAST Search History

S26	139	switch$4 with (plural$4 multiple) with (laser beam) with transfer$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:10
S27	124152	"219"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:10
S28	1	S26 and S27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:11
S29	108860	laser.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:13
S31	32	S26 and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:11
S32	525	(laser with switch$4 with (plural$4 multiple)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:13
S33	7	S26 and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:14
S34	17685	b23k026$.ipc.	JPO	OR	ON	2006/07/24 12:15
S35	3	S34 and laser and switch$4 and (plural$4 multiple) and opposi$4	JPO	OR	ON	2006/07/24 12:16
S36	3	S34 and laser and switch$4 and opposi$4 with side	JPO	OR	ON	2006/07/24 12:17
S37	171	S34 and laser with opposi$4 with side	JPO	OR	ON	2006/07/24 12:17
S38	2	S34 and laser with opposi$4 with side and switch$4	JPO	OR	ON	2006/07/24 12:18
S39	0	S34 and laser with opposi$4 with side and on with off	JPO	OR	ON	2006/07/24 12:18
S40	30	S34 and laser with opposi$4 with side with (work workpiece)	JPO	OR	ON	2006/07/24 12:36

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S41	54	S34 and laser and (multiple plural$4) with switch$4	JPO	OR	ON	2006/07/24 12:37
S42	22	S34 and laser and ((multiple plural$4) near5 beam with switch$4)	JPO	OR	ON	2006/07/24 12:50
S44	2	"20030029040"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 12:51
S45	24	laser with hous$4 with (vacuum "zero gravity")	JPO	OR	ON	2006/07/24 12:58
S46	0	S34 and laser with hous$4 with (vacuum "zero gravity")	JPO	OR	ON	2006/07/24 12:58
S47	359	laser with hous$4 with (vacuum "zero gravity")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:00
S48	8	laser with (work workpiece) near5 hous$4 with (vacuum "zero gravity")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:08
S49	0	laser with (work workpiece) with "centering pin"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:08
S50	0	laser same (work workpiece) with "centering pin"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:09
S51	193	(work workpiece) with "centering pin"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:09
S52	8	laser and (work workpiece) with "centering pin"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:15
S53	0	laser and (work workpiece) with "vice grip"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:17

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S54	10	laser and (work workpiece) with clamp$3 near3 lever	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:16
S55	32	(work workpiece) with "vice grip"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/24 13:17
S56	85	((energy laser electron) with (fiber fibre)) and ((multiple plural$4) adj4 (laser beam transfer device) with (around surround$4 encircl$4 circular$4 circl$4)) and (((laser electron energy) adj beam) with (weld$4 join$4 cut$4 inspect$4 bond$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:44
S57	97	((energy laser electron) with (fiber fibre)) and ((multiple plural$4) adj4 (laser beam transfer device) with (around surround$4 encircl$4 circular$4 circl$4)) and (((laser electron energy) adj beam) with (weld$4 join$4 cut$4 inspect$4 bond$4 engrav$4 etch$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:56
S58	9	((energy laser electron) with (fiber fibre)) and ((multiple plural$4) adj4 (laser beam transfer device) with (around surround$4 encircl$4 circular$4 circl$4) near3 (work workpiece pipe tube conduit cable wire cylind$7)) and (((laser electron energy) adj beam) with (weld$4 join$4 cut$4 inspect$4 bond$4 engrav$4 etch$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 07:46
S59	102	((laser electron energy) with beam with (hand adj (held tool))) and ((laser electron energy) with beam with (around surround$4 encircl$4 circular$4 circl$4) with (work workpiece pipe tube conduit cable wire cylind$7)) and (((laser electron energy) near3 beam) with (weld$4 join$4 cut$4 inspect$4 bond$4 engrav$4 etch$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:11
S60	3	(("4689467") or ("5929765") or ("4889022")).PN.	USPAT; USOCR	OR	OFF	2007/01/08 10:17

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S61	100	((laser electron energy) with beam with (hand adj (held tool))) and ((laser electron energy) with beam with (around surround$4 encircl$4 circular$4 circl$4) with (work workpiece pipe tube conduit cable wire cylind$7)) and (((laser electron energy) adj beam) with (weld$4 join$4 cut$4 bond$4 engrav$4 etch$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:12
S62	1	((laser electron energy) with beam with (hand adj (held tool))) and ((laser electron energy) with beam with (around surround$4 encircl$4 circular$4 circl$4) near3 (work workpiece pipe tube conduit cable wire cylind$7)) and (((laser electron energy) adj beam) with (weld$4 join$4 cut$4 bond$4 engrav$4 etch$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:13
S63	30	("20020098298" | "20030173344" | "20040188394" | "20050028897" | "3622743" | "4000392" | "4564736" | "4644127" | "4757179" | "4804815" | "4827099" | "5038016" | "5106010" | "5374319" | "5478983" | "5622638" | "5795412" | "5795541" | "5814784" | "5900170" | "5914059" | "6054672" | "6054687" | "6332272" | "6333484" | "6444947" | "6495793" | "6640604" | "6744007" | "6914213").PN. OR ("7094988"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 07:48
S64	1	S63 and hand adj (held tool)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/08 10:15
S65	488	(vice adj grip near3 (plier clamp$3 grip$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:19
S66	43	S65 and ((plier clamp$3 grip$4) with (hous$3 enclos$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:20
S67	10	S65 same ((plier clamp$3 grip$4) with (hous$3 enclos$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:22

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S68	71474	(lock$4 "over center") near3 (plier grip$4 clamp$3 tool)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:24
S69	9220	S68 and ((plier grip$4 clamp$3) with (hous$4 enclos$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:25
S70	522	S68 and ((plier grip$4 clamp$3) with (hous$4 enclos$4) near3 (pipe tube tubular workpiece "work piece"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:28
S71	259	S68 and ((plier grip$4 clamp$3 jaw) near3 (pipe tube tubular workpiece "work piece") with (hous$4 enclos$4) near3 (pipe tube tubular workpiece "work piece"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:29
S72	9	("3655268" | "4530098" | "4632512" | "4664484" | "5383199" | "5798867" | "5948291" | "6149278").PN. OR ("6770844"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/08 11:31
S73	2	((centering adj pin) with (around surround$4 encircl$4 circular$4 circl$4) with (pipe piping tube tubing) with (weld$4 join$4 cut$4 inspect$4 bond$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:47
S74	1	((centering adj pin) with plural$3 with (pipe piping tube tubing) with (weld$4 join$4)) not S73	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:51
S75	0	((plural$3 adj3 centering adj pin) with (pipe piping tube tubing) with (weld$4 join$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:52
S76	1	((plural$3 adj3 centering adj pin) with (pipe piping tube tubing))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:56
S77	0	(laser electron) near3 weld$4 with (zero adj gravity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:57

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S78	1	(laser electron) near3 weld$4 same (zero adj gravity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 11:57